



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

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Mitchell E. Daniels, Jr., Governor
Karl B. Browning, Commissioner

January 24, 2008

(317) 232-5474

To: District Bridge Inspection Engineers & Sam Wolfe (Toll Road - Operations Engineer)
Thru: District System Assessment Manager (Office of Planning and Programming Function)
From: Bill Dittrich, Bridge Inspection Engineer – Office of Technical Services *W.T.D.*

Subject: Quarterly **Bridge Inspection Status Report** - (data thru: **January 1, 2008**).

Attached is the latest "Status Report on Bridge Inspections for INDOT Bridges", along with various Bridge Statistics which provide valuable information about the overall condition of INDOT bridges. (A separate Report has been generated for the "County Bridge Inspection Status".)

INDOT Bridge Inspections are meeting INDOT and National Bridge Inspection Compliance Standards. Each of the "Overall NBIS Inspection Categories" is at or above 98.9% "current".

For most of the inspection categories evaluated, the Districts are 100% Compliant. For those categories where the Districts are not 100% Compliant, this may only represent one or two bridges.

Because all INDOT Districts are meeting INDOT Bridge Inspection Compliance Standard, no Districts are subject to having Federal Bridge Funds being suspended, for the quarter of: January 1, 2008 through April 1, 2008.

Significant events over the last quarter:

1. INDOT received the “Official” 2007 FHWA **Selection List** of Bridges eligible for Federal Bridge Funds. The FHWA produces this list based on established Sufficiency Rating Values, Condition Ratings of key bridge elements, Appraisal Ratings, and use of Federal Bridge funds on each bridge over the previous ten-year period.

2. In November, the FHWA and INDOT conducted the 2007 NBIS Review of the Indiana Bridge Inspection Program. The Review consisted meeting with the Monroe and Delaware County Engineers, their Inspection Consultant, and inspecting a number of bridges in each County, and discussing inspection and record keeping processes with those in attendance.

The 2007 NBIS Review was also supposed to include visits to the Greenfield and Seymour Districts, to meet with and discuss the NBIS Program with the District Directors. Due to time constraints on performing the Review, these visits did not take place. These may be included in with the 2008 NBIS Review.

3. In September, INDOT hired a Consultant to conduct an independent In-depth Inspection of nine Steel Deck Truss Bridges, (three INDOT Bridges, and six County Bridges). In addition, the Consultant was required to conduct a Load Capacity Analysis of each bridge, and compare it to any existing Load Analysis. Finally, the Consultant was to look at common types of deterioration found on Steel Truss Structures of all types, to ensure that this deterioration is being accounted for using current Load Rating Products.

The Consultant completed all field inspection work on these nine Steel Deck Truss Bridges by the end of October. Their preliminary inspection findings indicated that the existing inspections on these bridges accurately reported their condition. The Load Rating Analysis on eight of the bridges is continuing. The Load Rating on one bridge is complete. This was the Indiana State Route 55 Bridge, which was found to need to be posted. An 8-ton weight limit was placed in this bridge, after not previously being posted.

4. INDOT is in the process of developing an entirely new “Web-based Bridge Inspection Data Base / Application, which will be used by both INDOT and County Consultant Bridge Inspectors.

InspectTech was selected to conduct this vital work. A contract was signed on January 10, 2008, and a Notice to Proceed Date of February 1st, will be issued. This new Data Base /Application will be a multi-year process, but it will ultimately solve many of the reporting delays and data errors, and result in a much improved Bridge Inspection Program in Indiana.

Improvements to the existing ACCESS Data Base have been made by INDOT over the last year. We understand that many Consultants have their own data software which they use to manage the County Bridge Data and print the County Bridge Reports, and any changes that are made by INDOT to the Current INDOT ACCESS Data Base Tables has caused conflicts with how their software works. At this point, it is hoped that no additional changes or improvements will need to be made until the new Application is ready for use.

5. In September, INDOT advertised to hire a Firm to develop both a County and an INDOT Bridge Inspection Procedures Manual. These new Manuals will replace the out dated manuals produced in the early 1990’s. New Bridge Inspection Procedures Manuals are long overdue, and should help standardize how Inspections are conducted and Bridge Data is gathered in the State. (***This is a significant NBIS Compliance Issue.***)

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11. Members of the Bridge Inspection Equipment Committee have met several times to develop and finalize Policies and Procedures for the use of and training on INDOT's two Under Bridge Inspection Machines. Inspectors from the Crawfordsville and Seymour Districts have taken the lead on this, and have been designated as "Official Trainers" for these machines, due to the advanced training they have received from the manufacturer.

12. A Bridge Inspector's Meeting was held on November 19th, in the Traffic Management Center, in Indianapolis, and was hosted by the Seymour District.

The next Bridge Inspector's Meeting is to be hosted by Vincennes District, probably in late February, 2008.

13. The "Winter" meeting for the Midwest Bridge Inspection and Maintenance Working Group was cancelled. Dave Schulz, the director of BIRL, at Northwestern University, recently passed away. Dave Schulz was instrumental in organizing this group of Bridge Inspectors. He was in the process of getting funds re-authorized to continue funding the organization and operation of this important Bridge Inspector Workshop. It is anticipated that funds will be in place to hold the "Spring" meeting, in May, 2008.

This Group was organized by: Northwestern University, the University of Kentucky, INDOT, and the U.S. Dept. of Transportation. Meetings have been held twice a year, since 1995. Many past meetings were held in Indiana, since INDOT was one of the major founders of this "Group", and is centrally located among the States most actively involved.

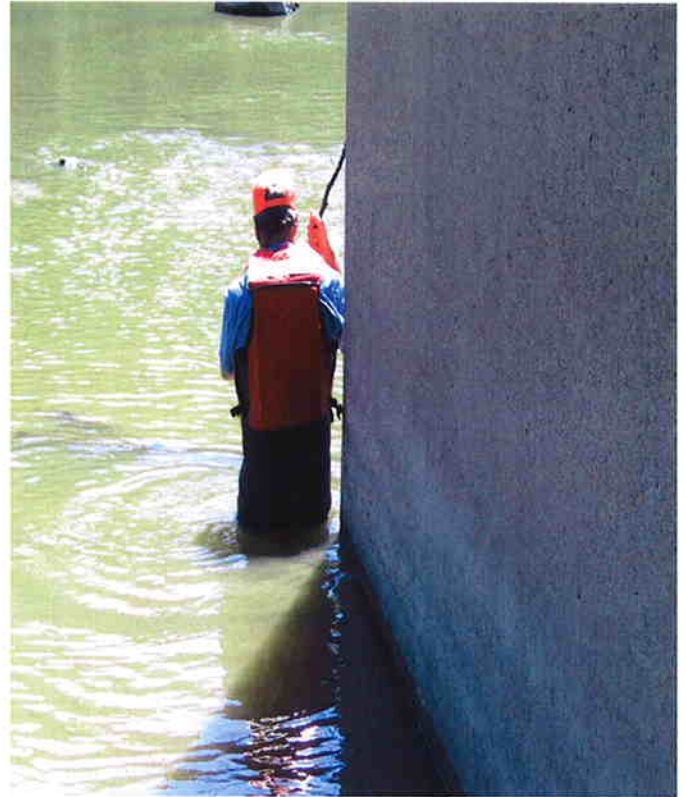
It is recommended that all INDOT Bridge Inspectors attend these meetings whenever possible, and attendance is a part of INDOT's NBIS Compliance Requirements for Training/Professional Development. Others at INDOT, as well as Consultants that perform County Bridge Inspections in Indiana are encouraged and welcomed to attend. Many have taken advantage of attending and participating in this forum over the years.

CC:

Gilbert Viets.....Deputy Commissioner/Chief of Staff
Mike Cline.....Deputy Commissioner
Joe Gustin.....Deputy Commissioner
John Weaver.....Deputy Commissioner
Andy Dietrick..... Director of Communications
Dave Holtz.....Director of Planning Division
Eric Conklin.....Manager Office of Technical Services
Keith Hoernschemeyer.....FHWA
Gerald Nieman..... Central Office Bridge Inspection Unit
Jaffar Golkhajeh..... System Analysis & Planning – Bridge Management
Anne Rearick.....Manager of Structural Engineering
George Snyder..... Bridge Rehabilitation Engineer
George Brashear..... Business & Information
INDOT District Bridge Inspection Engineers
INDOT District LPA Coordinators

This Report and Attachments will be posted on INDOT's Web Site, under Publications/Other Publications.





INDOT BRIDGE INSPECTION

Quarterly STATUS REPORT

{BRIDGE DATA & STATISTICS}

Data as of: **January 1, 2008**

Compiled by: The Central Office Bridge Inspection Unit

Status of INDOT Bridges -- (See separate status report for County Bridges.)

Status of COMPLIANCE with National Bridge Inspection Standards (NBIS)

The four major Inspection Categories

- #1 → Biennial Bridge Inspection Status** (District & Over-all Totals)
- #2 → 92A & 93A**
 - a.) Status of Inspections of all 3-Types of **Non-Redundant Bridges** (Highway, Railroad, and Walkway)
 - b.) Status of Inspections of **Non-Redundant Bridges** – Only those that carry **HIGHWAYS**
- #3 → 92B & 93B** Status of **Underwater/In-water Bridge** Inspections
- #4 → 92C & 93C** Status of **Special Bridge Detail** Inspections

Additional Bridge Status Information

Bridge Load Capacity Rating Data & Related Information

- Item 113A** a.) Bridge Scour Vulnerability Status – Overall Totals
- Item 113A** b.) Bridge Scour Vulnerability Status – District Breakdown of Totals
- Item 41** a.) Bridge Posting Codes Status – Overall Totals
- Item 41** b.) Bridge Posting Codes Status – District Breakdown of Totals
- Item 103** Bridges coded as “Temporary Structures”

Bridge Statistics, etc.

List of various “Bridge Statistics”

List of “Vertical Clearance OVER and UNDER data”

List of “Bridge Types & Number of each Type” (Main Spans only)

Summary of Year Built

Summary of “Year of last Rehab” done

List of “Horizontally” Curved INDOT Bridges

Item 503(s) Fatigue Prone & Special Bridge Details (need Arms-Length Inspections)

List of “Post-Tensioned Concrete (Segmental or Cast-in-Place) Concrete Box Girder Bridges”

List of “Major INDOT Bridges”

List of “INDOT Complex Bridges”

MISC.

List of INDOT Bridge Inspectors & Their Qualifications



COMPLIANCE with National Bridge Inspection Standards (NBIS)

NBIS Category	INDOT Districts									INDOT
	1	2	3	4	5	6	6/TF	7		
	Crawfordsville	Fort Wayne	Greenfield	La Porte	Seymour	Vincennes	Toll Facilities	Toll Road		Overall
Regular Biennial Inspection (NBI Item #90)	100.0%	100.0%	99.6%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%
Fracture Critical (NBI Item #92A)*	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	100.0%		98.9%
Special Inspection Details (NBI Item #92C)	100.0%	100.0%	100.0%	97.2%	97.2%	100.0%	50.0%	100.0%		99.2%
COMPLEX BRIDGES	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD		GOOD
Bridge Inspector Training - Professional Development and Qualifications	OK	OK	OK	OK	OK	OK	OK	OK		OK
Underwater Bridge Inspections (NBI Item #92B)	100.0%	100.0%	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%		99.7%
* = This only includes Fracture Critical Bridges that Carry Highways.										
Blue Shading = Is in Compliance with NBIS Requirements Yellow Shading = Is nearly in Compliance with NBIS Requirements Purple Shading = Is just outside of Compliance Standards for meeting NBIS Requirements Green Shading = Indicates that Bridges are under construction and can not be inspected at the required interval										
COMPLEX Bridges = GOOD if Bridge Report of all COMPLEX Bridges had an Engineer Team Leader present for the last inspection. COMPLEX Bridges = OK if Bridge Report of all COMPLEX Bridges did not have an Engineer Team Leader present for the last inspection. (New requirement in 2005, and not all bridges have been re-inspected since then.)										
Training and Professional Development is tracked by attendance at required training, meetings, and conferences.										
Beginning with the January 2008 Status Report, any Districts that are not in COMPLIANCE with the above NBIS Requirements shall be reported to the Indiana FHWA Bridge Engineer to have their Federal Bridge Funds suspended, until they again become in COMPLIANCE.										

Data as of: 01-1-2008

INDOT's Inspection Compliance Standards for: NBIS Required Inspections

Inspection Type	Compliance Standard #1	Compliance Standard #2	Misc.
Biennial Inspections (NBI Item #90)			
INDOT	98 % current / within 24-months	100 % current / within 27-months	
Indiana Counties	98 % current / within 25-months	100 % current / within 27-months*	* Based on the Inspection Contract being signed on time, for the Phase-1 Inspection, and not the Counties fault.
Fracture Critical Inspections (NBI Item #92A)			
INDOT - Only Highway Bridges	98% current / inspection interval	100% current / interval + 1-month	
INDOT - All Types of Bridges	95% current / inspection interval	100% current / interval + 2-month	
Indiana Counties	98% current / inspection interval	100% current / interval + 2-month*	
Underwater Inspections (NBI Item #92B)			
INDOT	95% current / inspection interval	100% current / interval + 3-month	
Indiana Counties	95% current / inspection interval	100% current / interval + 3-month*	
Special Detail Inspections (NBI Item #92C)			
INDOT	98% current / inspection interval	100% current / interval + 2-month	
Indiana Counties	98% current / inspection interval	100% current / interval + 2-month*	
COMPLEX Bridge Inspections			
INDOT	98% current / inspection interval	100% current / interval + 2-month	
Indiana Counties	98% current / inspection interval	100% current / interval + 2-month*	
<p>By NBIS Regulations, Counties are allowed 180-days (INDOT Districts are allowed 90-days) from the date an Inspection is due to have the new inspection data or changes entered into the State's Computer Bridge Inventory Files. However, actual Inspections are required to be conducted <u>BEFORE</u> they are due for their re-inspection!! Therefore, Inspections need to be conducted prior to the re-inspection date, for all types of Inspections. This is what will be verified to ensure Compliance with the NBIS, not when the data is submitted to INDOT. For Counties within the 180-day reporting window, the Status will be considered as incomplete to make a determination, unless there are already delinquent inspections beyond the 180-day window at the time that the quarterly Status Report is prepared.</p>			
<p>Status Reports are produced by INDOT four times a year, showing the Status of <u>INDOT Bridges</u> and <u>County Bridges</u>, as of: January 1st, April 1st, July 1st, and October 1st each year. Generally all inspection data received by INDOT's Central Office by the 10th of the month following the end of the quarter for which the Status is being reported on, is included in the status results.</p>			
<p>Any County or INDOT District that has not met the above "Compliance Standards" for any of the Inspection Categories shall be placed on notice that they are in non-compliance with NBIS Inspection Requirements, and shall become subject to having all Federal Bridge Funds being suspended on any projects on upcoming LETTINGS. A list shall be included in the Status Report of all Counties or Districts that are being notified. If a County or District has not met the above "Compliance Standards" for any of the Inspection Categories for a second consecutive quarter, or two quarters out of five, then the INDOT Bridge Inspection Engineer shall recommend to the FHWA Bridge Engineer that the County or District have their Federal Bridge Funds suspended until they have become 100% in compliance, and that the Funds be suspended until the next quarter's Status Report is produced, to ensure that they have remained in compliance, beyond just one LETTING.</p>			

REQUIRED INDOT Bridge Inspector Training

	Type of Training/Professional Development	Frequency of Training/Professional Development
1	NHI Courses	
1A	Two-week: Inspection of In-Service Bridges Course	At least once since: 1994
1B	3.5-day: Inspection of Fracture Critical Steel Structures Course	At least once since: 2000
1C	3-day: Bridge Inspectors Refreshers Course	At least once every ten years, if an active Inspector*
1D	Proposed Culvert Inspection Course	At least once every ten years, if an active Inspector
1E	Proposed Underwater/In-Water Inspection Course	At least once every ten years, if an active Inspector
	Other Training	
2	INDOT Bridge Inspector's Meetings	Five to six meetings a year - Inspectors MUST attend at least 4 per year
3	Midwest Bridge Inspection and Maintenance Working Group Meetings	Twice a year - Recommended that Inspectors attend both
4	2-day County Bridge Conference	Recommended that Inspectors attend both days each year
5	Annual NBIS Review	Annually for 2-INDOT Districts and at least 1-County per District
6	Annual Illinois & Kentucky Border Bridge Inspections	Recommend that Inspectors from around the State attend once every two years
7	General Reach-All Training to Maintain Warranties	Required for all Operators, Drivers, Mechanics
8	Annual In-Depth Reach-All Training in Duluth Minnesota	Two people chosen from one District per year, rotated around the State
9	Annual (Spring) INDOT Reach-All Refresher Training for Inspectors	Required for all Inspectors in order to use the machine that year.
10	Confined Space Training	Required for all Inspectors entering Confined Spaces. On-Going
11	Safety Training	Required for all Inspectors. Continuous
12	Asbestos & Lead Training	Required annually for those Inspectors that conduct these types of inspections.^
		^^ A License is also required for this work
		* = Inactive Inspectors MUST take before being re-Activated

Bridge Inspector Training Attendance

First Name	Last Name	District	3/20/2007 B.I. Meeting	May 15 & 16 Mid-West Insp. Meeting	6/6/2007 B.I. Meeting	6/25/2007 Major Bridge Meeting	8/8/2007 B.I. Meeting	8/9/2007 Tech Transfer Illinois DOT	10/3/2007 Equipment Data Base	11/19/2007 B.I. Meeting
Sherwood	Garrison	Crawfordsville	yes	yes	yes	yes	yes	yes	yes	yes
Matt	Ference	Crawfordsville	yes	yes	yes	~	yes	yes	yes	yes
Dan	Bewley	Crawfordsville	yes	yes	yes	~	yes	yes	yes	yes
Ponch	Hughes	Crawfordsville	yes	yes	yes	~	yes	yes	yes	yes
Mike	Hallien	Fort Wayne		yes	yes	~	yes	yes	yes	yes
Tom	Imbimbo	Fort Wayne			yes	yes				yes
Kirk	Smith	Fort Wayne	yes	yes	yes	~	yes	yes	yes	yes
Tim	Atkinson	Fort Wayne	yes		yes	~				yes
Jim	Mickler	Greenfield	yes	yes	yes	yes	yes		yes	yes
John	Routh	Greenfield	yes	yes		~	yes			yes
Walter	Evans	Greenfield	yes	yes		~				~
James	Yapp	Greenfield	yes	yes		~	yes		yes	yes
Wayne	Skinner	LaPorte		yes	yes	yes	yes	yes	yes	
Rich	Fieberg	LaPorte	yes	yes	yes	yes	yes	yes	yes	yes
Joe	Wojdyla	LaPorte	yes	yes	yes	~	yes	yes	yes	yes
Greg	Szabo	LaPorte	yes	yes	yes	~	yes	yes	yes	snow training
Chris	Everman	Seymour	yes	yes		yes	yes	yes	yes	yes
Jerry	Martin	Seymour	yes	yes		~	yes	yes	yes	yes
Mark	Wolfe	Seymour	yes	yes		~	yes	yes	yes	
Drew	Storey	Seymour	yes	yes	yes	~	yes	yes	yes	yes
Robert	Turner	Vincennes	yes	yes		yes	yes		yes	yes
Brad	Ridgley	Vincennes	yes			~				
Ronnie	Anthis	Vincennes	yes			~			yes	yes
Benjamin	Henson	Vincennes	~	~	~	~	~	~	~	yes
Bill	Dittrich	C O	yes	yes	yes	yes	yes	yes	yes	yes
Gerald	Nieman	C O	yes	yes	yes	yes	yes	yes	yes	yes
Debbie	Lewis	C O	yes		yes	~	yes			yes
John	Samuelson	C O	yes		yes	~	yes			yes
Jaffar	Golkhajeh	C O	yes		yes	yes				yes
Manoj	Sutaria	C O	yes	yes	yes	~	yes	yes		yes
Keith	Hoernschemeyer	FHWA	yes		yes	yes	yes	yes		yes

Bridge Inspector Training Attendance

First Name	Last Name	District	11/9/2006 B.I. Meeting	Dec. 12 & 13 Mid-West Insp. Meeting	1/24/2007 Day #1 Co. Br. Conf.	1/25/2007 Day #2 Co. Br. Conf.	2/15/2007 B.I. Meeting
Sherwood	Garrison	Crawfordsville	yes	yes	yes	yes	yes
Matt	Ference	Crawfordsville	yes	yes	yes	yes	yes
Dan	Bewley	Crawfordsville	yes	yes	yes	yes	yes
Ponch	Hughes	Crawfordsville	yes	yes	yes	yes	yes
Mike	Hallien	Fort Wayne	yes	yes	yes	yes	sick
Tom	Imbimbo	Fort Wayne	yes				yes
Kirk	Smith	Fort Wayne	yes		yes	yes	yes
Tim	Atkinson	Fort Wayne					yes
Jim	Mickler	Greenfield	yes	yes	yes	yes	yes
John	Routh	Greenfield	yes	yes	yes	yes	yes
Walter	Evans	Greenfield		yes	yes	yes	yes
James	Yapp	Greenfield	yes	yes	yes	yes	yes
Wayne	Skinner	LaPorte					yes
Rich	Fieberg	LaPorte	yes	yes	yes	yes	yes
Joe	Wojdyla	LaPorte	yes	yes	yes	yes	yes
Greg	Szabo	LaPorte	yes	yes	yes	yes	yes
Chris	Everman	Seymour	yes	yes			yes
Jerry	Martin	Seymour					yes
Mark	Wolfe	Seymour	yes	yes			
Drew	Storey	Seymour	yes	yes			yes
Robert	Turner	Vincennes	yes	yes		yes	yes
Brad	Ridgley	Vincennes		yes		yes	yes
Ronnie	Anthis	Vincennes		yes		yes	yes
Benjamin	Henson	Vincennes	~	~	~	~	~
Bill	Dittrich	C O	yes	yes	yes	yes	yes
Gerald	Nieman	C O	yes	yes	yes	yes	
Debbie	Lewis	C O	yes		yes	yes	sick
John	Samuelson	C O					yes
Jaffar	Golkhajeh	C O	yes		yes	yes	yes
Manoj	Sutaria	C O	yes		yes	yes	yes
Keith	Hoernschemeyer	FHWA	yes		yes	yes	

"Biennial Bridge Inspection" Status

Data as of: 01-01-2008

District	# of Bridges	# of Blank Insp. Date	%	# of Bridges with Insp. Date more than 2-year + 90 days old	%	# of Bridges with Insp. Date more than 2-years old	%	# of Bridges Inspection Date Current	%
1	901	0	0.00%	0	0.00%	0	0.00%	901	100.000%
2	743	0	0.00%	0	0.00%	0	0.00%	743	100.000%
3	1132	0	0.00%	0	0.00%	4	0.35%	1128	99.647%
4	808	0	0.00%	1	0.12%	1	0.12%	806	99.752%
5	943	0	0.00%	0	0.00%	0	0.00%	943	100.000%
6	834	0	0.00%	0	0.00%	0	0.00%	834	100.000%
6 (Toll Facilities)	2	0	0.00%	0	0.00%	0	0.00%	2	100.000%
7 (Toll Road)	331	0	0.00%	0	0.00%	0	0.00%	331	100.000%
INDOT Totals	5,694	0	0.00%	1	0.02%	5	0.09%	5688	99.895%
Illinois Border	3	0		0		0		3	
Kentucky Border	11	0		2		9		0	
Private Border	1	0		1		0		0	
Overall Total	5,709	0		4		14		5,691	99.685%
		See Note #1		90-days Past Due		Bridges Past Due			

Note #1 -- Inspection Dates are Blanked-out when a **Major Rehab** is done, or a **New Bridge** is built, and the bridge is opened to traffic.
The Inspectors have 90 days from when the bridge is complete to inspect the bridge.

NBIS Items 92A and 93A

Non-Redundant--Fracture Critical Bridges

(Data as of: 01/01/2008)

Totals for all three types of Non-redundant Bridges - (Bridges that carry 1. HIGHWAYS, 2. RAILROADS, 3. WALKWAYS).

DISTRICT	1 Crawfordsville	2 Ft.Wayne	3 Greenfield	4 LaPorte	5 Seymour	6 Vincennes	6 Toll Facility	7 Toll Road	INDOT Totals	Illinois Border	Kentucky Border	Private Border
# of Bridges Coded = Y (yes)	28	11	17	30	35	22	1	7	151	3	9	1
# of Bridges with Insp. Date	28	10	17	30	34	22	1	7	149	3	4	1
# of Bridges with Current Insp. Date	28	10	17	30	28	22	0	7	142	3	0	0
# of Bridges Insp. Date NOT Current	0	0	0	0	6	0	1	0	7	0	4	1
							**					
% of Bridge Dates Current	100%	100%	100%	100%	82%	100%	0%	100%	95%	100%	0%	0%
% of Bridge Dates NOT Current	0%	0%	0%	0%	18%	0%	100%	0%	5%	0%	100%	100%

Totals for only Non-redundant Bridges that carry HIGHWAYS, and reported to the FHWA.

DISTRICT	1 Crawfordsville	2 Ft.Wayne	3 Greenfield	4 LaPorte	5 Seymour	6 Vincennes	6 Toll Facility	7 Toll Road	INDOT Totals	Illinois Border	Kentucky Border	Private Border
# of Bridges Coded = Y (yes)	20	5	5	8	28	14	1	7	88	3	9	1
# of Bridges with Insp. Date	20	5	5	8	27	14	1	7	87	3	4	1
# of Bridges with Current Insp. Date	20	5	5	8	27	14	0	7	86	3	0	0
# of Bridges Insp. Date NOT Current	0	0	0	0	0	0	1	0	1	0	4	1
							**					
% of Bridge Dates Current	100%	100%	100%	100%	100%	100%	0%	100%	99%	100%	0%	0%
% of Bridge Dates NOT Current	0%	0%	0%	0%	0%	0%	100%	0%	1%	0%	100%	100%

* = These are bridges which have not yet received their first Fracture Critical Inspection. NBIS regulations allow 24 months to conduct this initial inspection. There may always be a few bridges in this category. The percentages of **Current** or **NOT Current** bridges do not include these bridges.

** The Toll Facility Bridges, over the Wabash River, on SR-62, are under construction and Inspectors are unable to conduct Regular or In-Depth Inspections.

NBIS Items 92B and 93B

Underwater/In-Water Bridge Inspections

(data as of: 01-01-2008)

DISTRICT	1 Crawfordsville	2 Ft.Wayne	3 Greenfield	4 LaPorte	5 Seymour	6 Vincennes	6 Toll Facility	7 Toll Road	INDOT Totals	Illinois Border	Kentucky Border	Private Border
# of Bridges Coded = Y (yes)	45	83	15	74	59	42	1	10	329	3	9	1
# of Bridges with Insp. Date	45	83	15	73	59	42	1	10	328	< *	3	1
# of Bridges with Current Insp. Date	45	83	15	73	59	41	1	10	327		3	0
# of Bridges Insp. Date NOT Current	0	0	0	0	0	1	0	0	1		0	1
						**						
% of Bridge Dates Current	100%	100%	100%	100%	100%	98%	100%	100%	100%	100%	0%	0%
% of Bridge Dates NOT Current	0%	0%	0%	0%	0%	2%	0%	0%	0%	0%	100%	100%

NOTE: District Inspectors are NOT responsible for any delinquent Inspection Dates for Underwater Inspections.
Underwater/In-water Bridge Inspection Contracts are 'LET' by the Central Office Bridge Inspection Unit.

A 6-year Underwater Bridge Inspection Contract, (to cover 2006 through 2012), has begun. The Consultant inspected 49 bridges in November, 2006; 20 bridges in May, 2007; 26 bridges in July, 2007; and 62 bridges in October-November, 2007.

62 Bridges coded N for 92B, but have an inspection date:

District

#1 = 1

#2 = 22

#3 = 19

#4 = 14

#5 = 2

#6 = 4

TF = 0

#7 = 0

I = 0

K = 0

P = 0

* = This is 1 new bridge which has not yet received its first Underwater Inspection. NBIS regulations allow 60 months to conduct this inspection after the bridge is completed. There will always be a few bridges in this category. The percentages of **Current** or **NOT Current** bridges does not include this bridge.

** This one bridge is delinquent, however, it is currently being replaced, with an estimated date of completion of November, 2007, and the new bridge will be inspected during the October-November, 2007 inspections scheduled by INDOT's Consultant.

NBIS Items 92C and 93C

Special Bridge Detail Inspections

Data as of: 01-01-2008

DISTRICT	1 Crawfordsville	2 Ft.Wayne	3 Greenfield	4 LaPorte	5 Seymour	6 Vincennes	6 Toll Facility	7 Toll Road	INDOT Totals	Illinois Border	Kentucky Border	Private Border	
# of Bridges Coded = Y (yes)	109	39	149	106	75	61	2	185	726		3	11	1
# of Bridges with Insp. Date	109	38	149	106	72	61	2	185	722	< *	3	6	1
# of Bridges with Current Insp. Date	109	38	149	103	70	61	1	185	716		3	0	0
# of Bridges Insp. Date NOT Current	0	0	0	3	2	0	1	0	6		0	6	1
							**						
% of Bridge Dates Current	100%	100%	100%	97%	97%	100%	50%	100%	99%		100%	0%	0%
% of Bridge Dates NOT Current	0%	0%	0%	3%	3%	0%	50%	0%	1%		0%	100%	100%

Item **92C.X** - **Special Bridge Detail** - Inspections: (Bridges may have one or more of the following types of Special Bridge Details.)

1 = Hanger Type Connections **2** = Hinge or Pin Type Connections **3** = Steel Pier Caps
4 = Posted Weight Limits **5** = Steel Box Girders **6** = Concrete Segmental (Box-Girder) Bridges
7 = Cantilevered Bearings **8** = Other Fatigue Prone Details or Items that need Special Monitoring

Total of Bridges by: "Special Bridge Detail" Codes:

Code **1** = 11 bridges Code **2** = 129 bridges Code **3** = 11 bridges Code **4** = 7 bridges Code **5** = 10 bridges
 Code **6** = 14 bridges Code **7** = 12 bridges Code **8** = 441 bridges Code is BLANK = 106 bridges (Toll Road bridges.)

Re-inspection Frequency for 92C bridges.

District	1	2	3	4	5	6	6-TF	7	8	9	10	11	12	Totals
Frequency = 24 months	106	38	142	101	70	56	2	181	3	11	1			711
Frequency less than 24 months	2	1	2	4	4	0	0	4	0	0	0			17
Frequency greater than 24 months	0	0	6	1	1	5	0	0	0	0	0			13

* = These are 6 bridges which have not yet received their first Special Detail Inspection. NBIS regulations allow 24 months to conduct this initial inspection. There may always be a few bridges in this category. The percentages of **Current** or **NOT Current** bridges do not include these 12 bridges.

** The Toll Facility Bridges, over the Wabash River, on SR-62, are under construction and Inspectors are unable to conduct Regular or In-Depth Inspections.

135 Bridges coded **N** = NO, for 92C, but have an inspection date: District:

#1 = 28 bridges
 #2 = 26 bridges
 #3 = 12 bridges
 #4 = 37 bridges
 #5 = 10 bridges
 #6 = 19 bridges
 #7 = 3 bridges
 TF = 0 bridges
 I = 0 bridges
 K = 0 bridges
 P = 0 bridges

Status of Bridge Load Capacity Ratings

(data as of: 01/01/2008)

Type of Load Rating	Number of Bridges	Changes since 7-1-2007
Total Number of INDOT Bridges	5709	+8
Up-to-date VIRTIS Ratings done In-house by INDOT	538	+176
Up-to-date VIRTIS Ratings done by Consultants	2070	+663
TOTAL	2608	+839
Up-to-date BARS Ratings	# not available at this time	~
Number of bridges that can Not be load rated (Railroad & Pedestrian Bridges over INDOT Roads)	98	-2
Number of bridges that can Not be load rated * (Structure Types that INDOT's rating programs do not rate)	864	+9

**Type and Number of Bridges that INDOT does NOT have
a Load Rating Program for Load Capacity Analysis.**

MPA-UF = 157 bridges
 PCA-UF = 38 bridges
 PCS-UF = 54 bridges
 RCA-UF = 159 bridges
 RCB-UF = 98 bridges
 RCP-UF = 2 bridges
 PCS = 9 bridges
 RCA = 276 bridges
 RCA-OS = 8 bridge
 UCA = 2 bridges
 CPTCS = 1 bridge
 PTRCS = 16 bridges
 PTCBG = 16 bridges
 BB = 1 bridge
 BT = 1 bridge
 WGRF = 3 bridges
 STA = 1 bridge
 CSTA = 3 bridges
 CSTT = 7 bridge
 MPA = 2 bridges
 TSA = 1 bridge
 SCSG = 1 bridge
 PCA = 1 bridge
 CCBUF = 5 bridges
 THRU-ARCH = 1 bridge
 PKCSB = 1 bridge

TOTAL = 864 Bridges

Misc. Load Rating Related Data Items

(data as of: 01/01/2008)

	Number of Bridges	Changes since 10-1-2007
Number of Bridges on "Extra Heavy Duty Highways" Routes ("Michigan Train Truck" Routes)	57	~
Number of Bridges on "Heavy Duty Highways" Routes	625	~
Current Coding on: Item 64B (Rating Check)		
5 = No longer being used ,	0	~
4 = Cannot be Rated at this time with VIRTIS	926	~
3 = No longer being used	0	~
2 = Up to date Rating -using Load Factor	3089	-3
1 = Rated, But NOT up to date	1076	~
Blank = New Bridge or Major Rehab, NOT yet Rated	618	+11
Current Coding on: Item 501.03 (Overload Problems) ^ (Data determined by Bridge Inspectors in the Field.)		
5 = Do NOT Allow Overweight Vehicles to cross over Bridge	36	+1
4 = YES, Consider NOT allowing Most Overload Vehicles	17	~
3 = YES, Combine Slowing and Positioning Vehicle	3	~
2 = YES, Position Vehicle on Bridge Deck	1	~
1 = YES, Slow Vehicle down over the Bridge	16	~
N = No Load Carrying Problems Notes	5636	+7
Current Coding on: Item 501.04 (Overload Data) **		
5 =	0	~
4 = Bridge can NOT be Rated based on Structure Types	850	~
3 =	108	~
2 =	495	~
1 =	1	~
Blank	4255	+8
Current Coding on: Item 501.05 (Load Restrictions)		
5 = Condition Data does not restrict Overweight Vehicles	461	~
4 = NO Overload Vehicles Allowed!!	203	+1
3 = 5 mph Speed Restriction for Overloads	53	~
2 = 10 mph Speed Restriction for Overloads	67	~
1 = Condition Rating of a "3" or Less, Requires Review	3672	-5
Blank = Condition Data not yet reviewed	1253	+12

^ = Data provided by Bridge Inspectors based on Field Inspections.

** = New Data, Based on Structure Types, (October, 2006).

Load Rating Data breakdown based on: NHI and Non-NHI Bridges.

(data as of: 01/01/2008)

NHI Bridges	Interstate Bridges	STRAHNET Bridges	NHI-Connector Bridges	Other NHI Bridges	Totals for all NHI Bridges
Current Coding on: Item 64B (Rating Check)					
4 = Cannot be Rated at this time with VIRTIS	105	15	3	163	286
2 = Up to date Rating -using Load Factor	1345	10	2	423	1780
1 = Rated, But NOT up to date	451	7	0	250	708
Blank = New Bridge or Major Rehab, NOT yet Rated	231	2	1	100	334
Totals	2132	34	6	936	3108
Non-NHI Bridges	Non-NHI Bridges				
Current Coding on: Item 64B (Rating Check)					
4 = Cannot be Rated at this time with VIRTIS	640				
2 = Up to date Rating -using Load Factor	1309				
1 = Rated, But NOT up to date	368				
Blank = New Bridge or Major Rehab, NOT yet Rated	284				
Totals	2601				

Status of NBI Item #113

"Vulnerability to SCOUR"

(Data as of: 01-01-2008)

<u>NBI SCOUR CODE</u>		<u># of INDOT Bridges</u>	<u>Changes</u>
0	Bridge CLOSED, due to Scour	0	~
1	Bridge CLOSED, due to Scour	0	~
2	SCOUR CRITICAL BRIDGE	179	-2
3	SCOUR CRITICAL BRIDGE	27	~
4	HIGH/MODERATE Risk for Scour	36	~
5	MODERATE/LOW Risk for Scour	414	+1
6	Code - No Longer Used	0	~
7	Designed Scour Counter-measures in-place	175	+2
8	Low Risk for Scour	2,798	+8
9	Little Chance of Scour	5	~
U	Unknown FoundationTypes	8	~
T	Over Tidal Areas	0	~
	# of Bridges over Waterways	3,642	+9
N	Not over Water	2,067	-1

Changes, are since Oct. 1, 2007

District Break-downs for:
Scour Vulnerability Codes (NBI Item #113)
(Data as of: 01-01-2008)

DISTRICT	NBI Item #113 -- Scour Vulnerability Codes								TOTALS
	2	3	4	5	7	8	9	U	
1	32	7	8	90	54	477	0	2	670
2	30	1	2	54	17	403	1	1	509
3	46	3	1	75	57	426	2	1	611
4	11	4	6	30	16	375	2	1	445
5	38	7	13	85	15	549	0	2	709
6	19	5	5	80	16	521	0	1	647
6 - Toll Facility	0	0	1	0	0	1	0	0	2
7 - Toll Road	0	0	0	0	0	34	0	0	34
Illinois Border	2	0	0	0	0	1	0	0	3
Kentucky Border	0	0	0	0	0	11	0	0	11
Private Border	1	0	0	0	0	0	0	0	1
TOTALS	179	27	36	414	175	2798	5	8	3642

NOTE: The reviews from a number of Scour Committee meetings have NOT been completed and changes from the reviews have NOT yet been made to the Data Base.

Status of NBI Item #41

Structure: OPEN, POSTED, or CLOSED to Traffic

(data as of: 01-01-2008)

Open - Posted - Closed to Traffic

<u>NBI Code</u>	<u># of INDOT Bridges</u>	Changes
A OPEN, no restrictions	5,614	+7
B OPEN, posting recommended, no signs	0	~
D OPEN, would be posted, but shored-up	57	~
E OPEN, temporary structure, awaiting work	0	~
G New structure, not yet OPEN to traffic	3	~
K Bridge CLOSED to all traffic	10	+1
P POSTED for LOAD (weight limit)	8	
R POSTED for other Restrictions (Load, Speed, Width, etc.)	17	~
Total # of Bridges	5,709	+8

Changes, are since Oct. 1, 2007.

District Break-downs for:

OPEN - POSTED - CLOSED Bridges (NBI Item #41)

(data as of: 01-01-2008)

DISTRICT	NBI Item #41 -- Structure: Open, Posted, Closed -- Codes								TOTALS
	A	B	D	E	G	K	P	R	
1	887 (+2)*	0	5	0	0	1	3 (+1)*	5	901
2	736	0	3	0	0	1	0	3	743
3	1118 (+1)*	0	8	0	3	1	2	0	1,132
4	786 (+3)*	0	11	0	0	4	0	6	808
5	928 (+1)*	0	9	0	0	2	3	1	943
6	812	0	21	0	0	0	0	2	834
6 - Toll Facility	2	0	0	0	0	0	0	0	2
7	331	0	0	0	0	0	0	0	331
Illinois Border	3	0	0	0	0	0	0	0	3
Kentucky Border	11	0	0	0	0	0	0	0	11
Private Border	0	0	0	0	0	1 (+1)*	0 (-1)*	0	1
TOTALS	5614 (+7)*	0	57	0	3	10 (+1)*	8	17	5,709

Bridges coded as a K = Bridge Closed to all Traffic:

District #1 = P000-61-7056
 District #2 = P000-85-7057
 District #3 = I465-132-5282B
 District #4 = 17-25-4127A
 District #4 = 119-66-6317B
 District #4 = 212-46-2461A
 District #4 = P000-56-7070
 District #5 = (1X)1-24-6625B
 District #5 = P000-41-7080
 Private Border Bridge = 66-65-6575

Bridges coded as a B = Bridge Requires Posting:

Bridges coded as a P = POSTED for Weight:

District #1 = P000-67-7096C -- 9-tons
 District #1 = 32-83-3177 -- 12-tons
 District #1 = 55-86-3502B -- 8-tons
 District #3 = 19-29-8543 -- 5-tons (Pedestrian Bridge)
 District #3 = I465-129-5277C -- 12-tons
 District #5 = P000-07-7101B -- 3-tons
 District #5 = P000-40-7088 -- 4-tons
 District #5 = P000-41-7430 -- 10-tons

* = (-1) change since last quarter

Status of NBI Item #103

Temporary Structure Designation

(data as of: 01-01-2008)

NBI Item #103 -- Temporary Structure Designation

DISTRICT	Total Number of Bridges	Number of Temporary Bridges	Changes in last Quarter
1	901	5	~
2	743	3	~
3	1,132	8	~
4	808	11	~
5	943	9	~
6	834	21	~
Toll Facility	2	0	~
7	331	0	~
Illinois Border	3	0	~
Kentucky Border	11	0	~
Private Border	1	0	~
TOTALS	5,709	57	~

8 PCBB Bridges are coded as Temporary due to having a Bituminous Overlay on the deck of the bridge.

2 PCB Bridges are coded as Temporary due to having a Bituminous Overlay on the deck of the bridge.

2 PCB Bridges are coded as Temporary due to having a Bituminous Overlay on the deck of the bridge, and Timber Foundations.

42 Bridges are coded as Temporary due to the Timber Foundation of the Substructure.

2 Bridges are on Unknown Foundation Types.

1 Bridge **RPG** is Shored-up.

BRIDGE STATISTICS (data as of: 01-01-2008)

Bridges

5,709	Bridges Inventoried by INDOT
1,501	Bridges that Carry Interstate Routes
1,081	Bridges Carry U.S. Routes
2,405	Bridges that Carry S.R. Routes
334	Bridges that Carry County Roads Over Interstate Routes
14	Bridges that Carry County Roads Over U.S. Routes
3	Bridges that Carry County Roads Over S.R. Routes
0	Bridge that Carries County Road Over R.R. within INDOT R.O.W.
160	Bridges that Carry City Streets Over Interstate Routes
19	Bridges that Carry City Streets Over U.S. Routes
7	Bridges that Carry City Streets Over S.R. Routes
0	Bridge that Carries City Street Over Creek within INDOT R.O.W.
64	Bridges that Carry 'State Properties' Roads
79	Bridges that Carry Railroads Over INDOT Routes
3	Bridges that Carry ABANDONED Railroads Over INDOT Routes
19	Bridges that Carry a Pedestrian Walkway over INDOT Routes
14	Bridges that Carry INDOT Routes, Adjacent to the Mainline Route
5	Misc. -- Bridges over INDOT Routes
1	Bridge that Carries a Private Bridge over the Wabash River

17	Bridges ON the Highway System OVER Highway-Waterway-Railroad	8
3,501	Bridges ON the Highway System OVER Waterway Only	5
23	Bridges ON the Highway System OVER Waterway-Railroad	7
278	Bridges ON the Highway System OVER Railroad Only	2
1,606	Bridges ON the Highway System OVER Highway Only	1
118	Bridges ON the Highway System OVER Highway-Railroad	4
98	Bridges ON the Highway System OVER Highway-Waterway	6
60	INDOT Roads over Abandoned RRs, Trails, & Misc. Features	0+9
8	Pedestrian Bridges (UNDER) Indiana Highway System Routes	3

901	Bridges in the CRAWFORDSVILLE District
743	Bridges in the FORT WAYNE District
1,132	Bridges in the GREENFIELD District
808	Bridges in the LA PORTE District
943	Bridges in the SEYMOUR District
834	Bridges in the VINCENNES District
2	TOLL FACILITIES Bridges (Vincennes District Inspects)
331	Bridges in the TOLL ROAD District
3	Border Bridges -- ILLINOIS Lead State
11	Border Bridges -- KENTUCKY Lead State
1	Border Bridge -- PRIVATELY OWNED, between Indiana & Illinois

Bridges

25	1-Lane Bridges - with 2-way traffic less than 18.0' wide	3
0	2-Lane Bridges (one roadway) less than 18.0' wide	2
15	Vertical Clearance <u>under</u> is less than 12'-06"	
33	Vertical Clearance <u>under</u> is less than 13'-06"	
262	Vertical Clearance <u>under</u> is less than 14'-06"	
2,143	Bridges with Vertical Clearances underneath	

POSTED LOAD LIMIT BRIDGES

3	5 Tons and below
3	6 Tons to 10 Tons
2	11 Tons to 15 Tons
0	16 Tons and Above

LISTING of SPECIAL BRIDGE TYPES

1	Covered Bridges
6	Timber Bridges (beams, slabs, girders)
1	Lift Bridges
56	Steel Thru Trusses (STT, CSTA, CSTT)
17	Steel Pony Trusses
3	Deck Trusses
1	Bailey Trusses
17	Post-Tensioned Concrete Box Girders*
	* = 16 main spans + 1 widening
276	Reinforced Concrete Arches
8	Reinforced Concrete Open-Spandrel Arches
1	Stone Arches
1	Thru-Reinforced Concrete Arches
262	Reinforced Concrete Arch/Box-Underfills
159	Multi-Plate (Metal) Arches
97	Bridges with Weathering Steel

Vertical Clearance Data: OVER and UNDER -- Bridges

(data as of: 01-01-2008)

Data on the "Number of and Percentage of INDOT's 5,709 bridges with Vertical Clearances".

# Bridges	% of ALL Bridges
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UNDER DATA

15	0.26%	Vertical Clearance <u>under</u> is less than 12'- 06"	15
23	0.40%	Vertical Clearance <u>under</u> is less than 13'- 00"	15 + 8 = 23
33	0.58%	Vertical Clearance <u>under</u> is less than 13'- 06"	23 + 10 = 33
56	0.98%	Vertical Clearance <u>under</u> is less than 14'- 00"	33 + 23 = 56
262	4.59%	Vertical Clearance <u>under</u> is less than 14'- 06"	56 + 206 = 262
498	8.72%	Vertical Clearance <u>under</u> is less than 15'- 00"	262 + 236 = 498
627	10.98%	Vertical Clearance <u>under</u> is less than 15'- 06"	498 + 129 = 627
780	13.66%	Vertical Clearance <u>under</u> is less than 16'- 00"	627 + 153 = 780
1162	20.35%	Vertical Clearance <u>under</u> is less than 16'- 06"	780 + 382 = 1162

2,144	37.55%
3,565	62.45%

Bridges with Vertical Clearances underneath
Bridges with "NO" Vertical Clearances underneath

OVER DATA

19	0.33%	Vertical Clearance <u>over</u> is less than 13'- 00"	19
20	0.35%	Vertical Clearance <u>over</u> is less than 13'- 06"	19 + 1 = 20
22	0.39%	Vertical Clearance <u>over</u> is less than 14'- 00"	20 + 2 = 22
31	0.54%	Vertical Clearance <u>over</u> is less than 14'- 06"	22 + 9 = 31
57	1.00%	Vertical Clearance <u>over</u> is less than 15'- 00"	31 + 26 = 57
61	1.07%	Vertical Clearance <u>over</u> is less than 15'- 06"	57 + 4 = 61
64	1.12%	Vertical Clearance <u>over</u> is less than 16'- 00"	61 + 3 = 64
83	1.45%	Vertical Clearance <u>over</u> is = or >16'- 00", but not Unlimited	64 + 19 = 83

5,626	98.55%
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Bridges with Unlimited Vertical Clearances "OVER"
(No overhead restrictions)

Totals of "Main Span" -- Bridge Types

NBI Item: # 43

<u>CONCRETE BRIDGES</u> (Main-Spans)			<u>STEEL BRIDGES</u> (Main-Spans)		
	# of Bridges	Changes		# of Bridges	Changes
CCTB	10	~	BB	1	~
CPCBB	141	~	BT	1	~
CPCIB	480	+1	CESB	1	~
CPCTB	62	+1	CRPG	17	~
CPTCS	1	~	CSB	484	-2
CRCB	2	~	CSG	79	~
CRCBG	1	~	CSTA	3	~
CRCG	242	~	CSTT	7	~
CRCRF	1	~	ESB	1	~
CRCS	948	~	ESG	3	~
CTB	7	~	KCRPG	3	~
PCA	1	~	KCSB	840	~
PCB	16	~	KCSBG	9	~
PCBB	219	~	KCSG	350	~
PCIB	147	~	KSB	101	~
PCS	9	~	KSG	27	~
PCTB	19	~	MPA	2	~
PTCBG	16	~	PKCSB	1	~
PTRCS	16	~	RPG	30	~
RCA	275	-1	SB	234	~
RCA-OS	8	~	SBG	1	~
RCG	164	~	SCSG	2	~
RCRF	2	~	SDT	3	~
RCS	63	~	SG	35	~
THRCA	1	~	SPT	17	~
UCA	2	~	STA	1	~
			STT	44	~
			TSA	1	~
			WGRF	3	~
			WSTG	20	~
TOTALS	2,853	+1		2,321	-2
<u>TIMBER/STONE BRIDGES</u> (Main-Spans)			<u>UNDERFILL BRIDGES</u> (Main-Spans)		
	# of Bridges			# of Bridges	
TB	3	~	CCBUF	5	~
TCB	1	~	MPA-UF	157	~
TG	1	~	PCA-UF	38	+4
TS	2	~	PCS-UF	54	+4
			RCA-UF	159	~
SA	1	~	RCB-UF	98	+1
			RCG-UF	3	~
			RCP-UF	2	~
			RCS-UF	11	~
TOTALS	8	~		527	+9

Total of 5,709 bridges. Data as of: 01-01-2008. Changes noted, are since Oct. 1, 2007.

Summary of YEAR BUILT, for INDOT Bridges

Data as of: 01-01-2008

Years -- Built	# of Bridges	Changes since 07-01-2007
1838 -- 1900	6	~
1901 -- 1910	14	~
1910 -- 1920	34	~
1921 -- 1930	206	~
1931 -- 1940	442	~
1941 -- 1950	237	~
1951 -- 1960	959	-1
1961 -- 1970	1516	-2
1971 -- 1980	619	~
1981 -- 1990	700	~
1991 -- 2000	706	~
2001 --	270*	+11
Total # of Bridges	5,709	+8

* Have NOT yet finished entering all of the bridges Built in the years: 2003, 2004, 2005, 2006 & 2007.

Summary of "YEAR of last REHAB", for INDOT Bridges

Data as of: 01-01-2008

<u>Year of Rehab</u>	<u># of Bridges</u>	Changes since 07/01/2007
1921 -- 1930	2	~
1931 -- 1940	4	~
1941 -- 1950	9	~
1951 -- 1960	36	~
1961 -- 1970	61	~
1971 -- 1980	301	~
1981 -- 1990	1,013	-6
1991 -- 2000	1,425	~
2001 --	437	+3
Bridges not Yet Rehabbed	2,421	+11
Total # of Bridges	5,709	+8

* Have NOT yet finished entering all of the bridges Rehabbed in the years: 2003, 2004, 2005, 2006, & 2007.

List of INDOT Bridges with "Horizontally" CURVED Steel and/or Concrete Girders. (01/01/2008)

<u>STEEL</u>				<u>CONCRETE</u>		
Structure Number	Str. Type	Year Built (or beams placed)		Structure Number	Str. Type	Year Built
<u>CRAWFORDSVILLE</u>				26-79-6961 EBL	PTCBG & CRCVS	1992
				26-79-6961 WBL	PTCBG & CRCVS	1992
<u>FORT WAYNE</u>	I69-97-7320DRN	KCSG	1986			
<u>GREENFIELD</u>	(1)44-21-0086 B	SG	1996 widening	I70-86-6462C	PTCBG	1977
	(I465)I74-94-7993	KCSG	2002	I465-117-6463	PTCBG	1977
	(I74)465-112-7994 ADJ	KCSG	2001	I70-69-8516 ADJ	PTCBG	2005
	I65-127-4291B	KCSB	2000 widening	I70-69-8517	PTCBG	2005
	I465-114-7999	KCSG	2001	I70-69-8519	PTCBG	2005
	I465-121-8205	KCSG	2003			
<u>LA PORTE</u>	18-08-6246	CSB	1980	912-45-2546 RWN	PTCBG	1983
	25-09-7409	KCSG	1994	912-45-2546 REX	PTCBG	1983
	912-45-2543 NEC A	KCSG	1980	912-45-2546 REN A	PTCBG	1983
	41-45-7550 SBL	KCSG	1992	912-45-2546 RWX A	PTCBG	1983
	I80-3-7551 ADJ	KCSBG	1993	912-45-2546	PTCBG	1983
	(I80)152-45-7552 ADJ	KCSBG	1993	(912)I80-5-7828	PTCBG	2000
	I80-3-7555	KCSBG	1992	(912)I80-5-7823	PTCBG	2000
	I80-3-7553 ADJ	KCSBG	1992			
	I80-3-7556 ADJ	KCSBG	1992			
<u>SEYMOUR</u>	I275-1-5640A	CSG	1975			
<u>VINCENNES</u>						
<u>TOLL ROAD</u>						

Data as of: 01-01-2008

**FATIGUE-PRONE STEEL BRIDGE DETAILS & Other Special Bridge Inspection Details
that
REQUIRE FREQUENT ARMS-LENGTH INSPECTIONS**

	<u># of INDOT Bridges</u>	<u>Data Base Item Number</u>	<u>Type of Special Steel Detail -- Needing Inspection</u>	
*	96	503.10	Horizontal Gusset Plates-Lateral Bracings-NO X-Bracings -- ONLY	~
*	102	503.11	Horizontal Gusset Plates-Lateral Bracings-WITH X-Bracings -- ONLY	~
*	75	503.10 & 503.11	Both Horizontal Gusset Plates-Lateral Bracings-With & Without X-Bracings	~
	233	503.12	Web Welds	~
	345	503.13	Flange Welds	~
	573	503.14	Coverplates	~
	31	503.15	Longitudinal Web Stiffeners	~
**	9	503.16	Plates Welded to Flanges	~
	11	503.17	Steel Box Girders	~
	17	503.18	Hangers	~
	149	503.19	Pin / Hinges	~
	117	503.20	Cantilevered Bearings	~
	18	503.21	Steel Box Pier Caps	~
	17	503.22	Post-tensioned Concrete Box Girders (Segmentals)	~
	9	503.23	Open Spandrel Arches	~
	216	503.26	Other Special Bridge Details	+1

NOTE: A single bridge may contain one or more TYPES of these Special Steel Details. This is one reason why the bridge totals for the 503 items may not equal the bridge totals for the same type of item for item 92C.X, where only one code can be used for the bridge.

* = Possible "HOAN Bridge Type Details"
** = Critical Category E' Fatigue Details

Changes since Oct. 1, 2007.

Post-Tensioned Concrete (Segmental or Cast-in-Place) Box Girder Bridges.

NBI #	BRIDGE-NUMBER	Dist.	Road # Over	Road # Under	FACILITY-CARRIED	FEATURES-INTERSECTED	LOCATION	Year Built	Year Rehabbed	Main Span Str. Type	Appr. Span Str. Type	Box Girder Code	Cast-in-Place Segmental
26790	136-86-06086A	1	0136		US 136	WABASH RIVER	2.38 E SR 63	1978	1992	PTCBG		2	Segmental
6683	026-79-06961EBL	1	0026		SR 26 EBL	WABASH RIV., CSX & N&S RR	0.35 E SR 43	1992	0	PTCBG	CRCVS	1	Cast-in-Place
6685	026-79-06961JWBL	1	0026		SR 26 WBL	WABASH RIV., CSX & N&S RR	0.35 E SR 43	1992	0	PTCBG	CRCVS	1	Cast-in-Place
17560	047-61-06570	1	0047		SR 47	TURKEY RUN	1.60 N US 41	1977	0	PTCBG		2	Segmental
49955	I465-117-06463A	3	I465	I465	I-70 WB TO I465 SB	I-465 & EAST 21ST STREET	1.48 N US 40	1977	2003	PTCBG		2	Cast-in-Place
42715	I70-86-06462C	3	I070	I070	I70WB RAMP-I465SB	I-70	0.16 E I-465	1977	0	PTCBG		2	Cast-in-Place
41968	I70-69-08517	3	I070	I070	I-70 EBL OFF RAMP	I-70 & I-70 CD's	3.27 E SR 267	2005	0	PTCBG		1	Cast-in-Place
41972	I70-69-08519	3	I070	I070	I-70 EBL ON RAMP	I-70 & I-70 CD's	3.25 W I-465	2005	0	PTCBG		1	Cast-in-Place
41966	I70-69-08516ADJ	3	I070	I070	I-70 WBL ON RAMP	I-70 WBL C-D RAMPS	3.26 E SR 267	2005	0	PTCBG		1	Cast-in-Place
33166	(912)I80-5-07828	4	0912	I080	SR912WBL TO I80WBL	I-80, SR 912, & RAMPS	0.03 W I-80	2000	0	PTCBG		1	Cast-in-Place
33163	(912)I80-5-07823	4	0912	I080	SR912EBL TO I80EBL	I-80, SR 912, & RAMPS	0.02 W I-80	2000	0	PTCBG		1	Cast-in-Place
33025	912-45-02546RWN	4	0912		RAMP B - WB	CONRAIL	0.19 E US 12	1983	0	PTCBG		1	Cast-in-Place
33026	912-45-02546REX	4	0912	0000	RAMP D - EB	RILEY ROAD & RAMP C	0.19 E US 12	1983	0	PTCBG		1	Cast-in-Place
33027	912-45-02546RENA	4	0912	0000	RAMP C - EB	RILEY ROAD, RAMP D	0.70 E US 12	1983	0	PTCBG		1	Cast-in-Place
33028	912-45-02546RWXA	4	0912		RAMP A - WB	ELEVATION	0.75 E US 12	1983	2000	PTCBG		1	Cast-in-Place
33029	912-45-02546A	4	0912	0000	SR 912	CANAL, RAMP, 3 RR & RD.	0.88 E US 12	1983	0	PTCBG		4	Cast-in-Place
18680	050-40-00917C	5	0050		US 50	V FORK MUSCATATUCK RIVER	1.24 E SR 3	1930	1996	RCAOS		1	Segmental

Data as of: 01-01-2008

INDOT "COMPLEX BRIDGES"

CONCRETE BOXES	District	Misc. TRUSSES	District	MISC. FRACTURE CRITICAL	District	STEEL BOX GIRDERS	District	Post-tensioned Concrete Slabs	District
912-45-2546A	4	36-83-3492A	1	31-52-4857CNBL	2	27-02-PKGAR	2	4-46-7981	4
912-45-2546RWXA	4	46-15-1987A	5	31-52-4857CSBL	2	157-28-6589	6	7-39-7271	5
912-45-2546RWN	4	52-79-1784DEBL -- SDT	1	63-84-3528CNBL	1	(I80)152-45-7552 ADJ	4	14-66-8113	4
912-45-2546RENA	4	55-86-3502B -- SDT		63-84-3528JBSBL	1	I80-3-7551 ADJ	4	26-38-7797	3
912-45-2546REX	4	57-28-341C & 57-28-3042D	6	46-60-2201B	5	I80-3-7555	4	61-63-7371	6
I70-86-6462C	3	152-45-1031G	4	I69-87-4781CNBL	2	I80-3-7553 ADJ	4	64-19-7368	6
I465-117-6463A	3	225-79-4016F	1	I69-87-4781CSBL	2	I80-3-7556 ADJ	4	75-32-4827A	1
26-79-6961EBL + Voided RCS	1	(231)45-19-995E	6	I74-6-4417DEBL	1			I65-263-5194BNBL	4
26-79-6961JWBL + Voided RCS	1			I74-6-4417EWBL	1			I65-263-5194BSBL	4
47-61-6570	1			I74-170-4684BEBL	5			I90-20-032-6EBL	7
50-40-917C + RCA-OS	5			I74-170-4684JBWBL	5			I90-20-032-6WBL	7
136-86-6086A	1			327-17-2055B (truss)	2	Curved Steel Girders/Beams		P000-41-7429	5
(912)I80-5-7828	4	Open-Spandrel Arches				(I)44-21-0086B	3	36-49-8041	3
(912)I80-5-7823	4	32-54-3347A	1			(I465)I74-94-7993	3	41-04-5991 NBL	1
I70-69-8516ADJ	3	41-61-5864B	1			(I74)I465-112-7994 ADJ	3	75-32-4827A	1
I70-69-8517	3	42-60-3761A	1			I65-127-4291B	3		
I70-69-8519	3	24-91-3731B	4	Ohio River Border Bridges		I465-114-7999	3		
		46-07-493A	5	I64-103-4691C (Share / Ky.)	5	18-08-6246	4		
		P000-39-6876B	5	I65-0-4811B (Ohio River Approach)	5	25-09-7409	4		
		50-40-917C + PTCBG	5	135-31-6504A (Share / Ky.) + Pins	5	912-45-2543 NECA	4	Misc. Post-tensioned Str.	
		(441)50-42-690 D (Share/Illinois)	6	237-62-6512B (Share / Ky.)	6	41-45-7550SBL	4	I69-114-7564 (cap)	2
Misc. Bridges						I275-1-5640A	5	30-43-4856BEBL (exterior PT)	2
12-45-6537 (Lift Bridge)	4					I69-97-7320DRN	2	30-43-4856BWBL (exterior PT)	2
39-55-3108B	5							41-45-3801ANBL (exterior PT)	4
P000-02-8612 (Stayed-Cable)	2							41-45-3801ASBL (exterior PT)	4
I69-153-5038 CNBL	2			Wabash River Border Bridges				41-45-3802BNBL (exterior PT)	4
I69-153-5038 JCSBL	2	PIN & HANGERS		154-77-6536 (Share/Illinois)	6	STEEL BOX PIER CAPS		41-45-3802BSBL (exterior PT)	4
I69-155-4818 BNBL	2	41-82-4999ANBL	6	50-42-4625BEBL (Share/Illinois)	6	62-82-2588JEBL & WBL	6		
I69-155-4818 JBSBL	2	41-82-4999ASBL	6	50-42-4625BWBL (Share/Illinois)	6	62-82-2589JEBL & WBL	6		
212-46-6826 (WGRF)	4	41-26-3917E	6	(441)50-42-690 D (Share/Illinois)	6	I465-135-5286CEBL	3		
27-38-6182A (THRU-ARCH)	3	I70-77-2420A	3	62-65-T4020A (Toll Bridge)	T	I465-135-5286CWBL	3		
P000-67-7096C	1	I90-45-005-2EBL	7	(62)762-65-4020A (Toll Bridge)	T	912-45-12001RB	4	Post-tensioned Concrete T-Beams	
		I90-45-005-2WBL	7			912-45-2552A	4	231-28-2571	6
		I90-45-009-7	7					421-08-07399	4
		I90-45-009-8	7					231-79-7531 NBL	1
		Vanderburgh Co. Br. # 620	~					231-79-7531 SBL	1
SPECIAL DESIGNS		Lake Co. Br. # 245	~	PIN & HINGES				66-82-8006 EBL (and cap)	6
I65-68-7910 (Stayed-Cable)	5	U.S. Steel Buchanan Str. Br.	~	+ 90 INDOT Bridges (see nest page)	all			66-82-8006 WBL (and cap)	6
46-03-7495EBL (Stayed-Cable)	5	Union Co. Br. #33	~	Franklin Co. Br. #144	~				
				Franklin Co. Br. #55	~				

Data as of: 01-01-2008

INDOT "COMPLEX BRIDGES"

PIN & HINGES	District	PIN & HINGES	District	PIN & HINGES	District	PIN & HINGES	District	PIN & HINGES	District
063-83-04323JASB	1	037-29-05311A	3	006-50-06624A	4	111-22-05516A	5	037-13-05679A	6
063-83-04415JNBL	1	I465-124-05269B	3	(12)912-45-02352B	4	337-31-05655A	5	037-47-05814ANBL	6
063-84-03528JBSB		I65-104-05562A	3	012-45-02460A	4	I265-0-05228A	5	037-47-05814ASBL	6
(231)52-79-05784ANBL	1	I65-104-05563A	3	031-71-05805ANBL	4	I265-1-05514A	5	041-82-05416A	6
I65-140-05570C	1	I65-105-05565A	3	031-71-05805ASBL	4	I64-108-05660	5	(57)I164-2-06979	6
I65-148-05578	1	I65-111-05713ANBL	3	049-64-06677NBL	4	I64-110-05661AEBL	5	066-13-05684A	6
I65-182-05488A	1	I65-111-05715A	3	049-64-06677SBL	4	I64-110-05661WBL	5	I164-11-06968	6
I65-187-05490	1	I65-112-05725A	3	049-64-06678ANBL	4	I64-113-05662	5	I164-12-02590JSBL	6
		I65-112-05726	3	049-64-06678ASBL	4	I64-116-05664EBL	5	I164-12-02590NBL	6
		I65-112-05727	3	049-64-06679BNBL	4	I64-116-05664WBL	5	I64-28-05592	6
		I65-112-05730B	3	049-64-06679BSBL	4	I64-119-05697BEBL	5	I64-29-05593CEBL	6
		I65-112-05731A	3	049-64-06684	4	I64-119-05697BWBL	5	I64-29-05593DWBL	6
		I65-113-05745A	3	312-45-02560	4	I65-100-05559BNBL	5		
		I65-113-05746A	3	912-45-05087	4	I65-100-05559BSBL	5		
(469)24-02-07027NBL	2	I65-113-05748ANBL	3	912-45-06604	4	I65-82-05524NBL	5		
(469)24-02-07027SBL	2	I65-113-05749A	3	912-45-06611A	4	I65-82-05524SBL	5		
(469)I69-97-07031EBL	2	I65-114-02419B	3	I65-213-05479CNBL	4	I65-83-05525	5	I90-45-009-1EBL	7
(469)I69-97-07031WBL	2	I69-3-05309A	3	I65-213-05479CSBL	4	I65-85-05528	5	I90-45-009-1WBL	7
P000-02-08612	2	I70-69-08517	3	I65-266-04911BSBL	4	I65-86-05530	5		
		I70-76-02385A	3	I65-266-04911CNBL	4	I65-96-05557	5		
				I94-29-04470A	4	I65-98-05558	5		
				I94-43-04485A	4				
				I94-50-04491A	4			066-65-06575	P

List of INDOT's ---- 104 "Major Bridges"

NBI-#	BRIDGE-NUMBER	DISTRICT	FACILITY-CARRIED	FEATURES-INTERSECTED	ROAD-#-OVER	ROAD-#-UNDER
6683	026-79-06961EBL	1	SR 26 EBL	WABASH RIV., CSX & N&S RR	0026	
6685	026-79-06961JWBL	1	SR 26 WBL	WABASH RIV., CSX & N&S RR	0026	
11480	036-83-03492A	1	US 36	WABASH RIVER	0036	
17560	047-61-06570	1	SR 47	TURKEY RUN	0047	
19010	052-79-01784DEBL	1	US 52 EBL	WABASH RIVER & SR 43	0052	0043
19020	052-79-01784JBWB	1	US 52 WBL	WABASH RIVER & SR 43	0052	0043
22620	063-84-03528CNBL	1	SR 63 NBL	WABASH RIVER	0063	
22625	063-84-03528JBSB	1	SR 63 SBL	WABASH RIVER	0063	
26790	136-86-06086A	1	US 136	WABASH RIVER	0136	
37640	I65-175-05541BNBL	1	I-65 NBL	WILDCAT CREEK	I065	
37650	I65-175-05541BSBL	1	I-65 SBL	WILDCAT CREEK	I065	
37710	I65-178-05509CNBL	1	I-65 NBL	WABASH RIVER	I065	
37720	I65-178-05509BSBL	1	I-65 SBL	WABASH RIVER	I065	
41090	I70-5-04613AEBL	1	I-70 EBL	WABASH RIVER	I070	
41100	I70-5-04613AWBL	1	I-70 WBL	WABASH RIVER	I070	
43820	I74-6-04417DEBL	1	I-74 EBL	WABASH RIVER	I074	
43830	I74-6-04417EWBL	1	I-74 WBL	WABASH RIVER	I074	
76420	231-79-07531NBL	1	US 231 NBL	WABASH RIVER	0231	
76430	231-79-07531SBL	1	US 231 SBL	WABASH RIVER	0231	
9880	031-52-04857CNBL	2	US 31 NBL	WABASH RIVER & 2 ROADS	0031	
9890	031-52-04857CSBL	2	US 31 SBL	WABASH RIVER & 2 ROADS	0031	
40890	I69-153-05038CNBL	2	I-69 NBL	LAKE CHARLES	I069	
40900	I69-153-05038JCSB	2	I-69 SBL	LAKE CHARLES	I069	
40940	I69-155-04818BNBL	2	I-69 NBL	GREEN LAKE	I069	
40950	I69-155-04818JBSB	2	I-69 SBL	GREEN LAKE	I069	
60115	P000-02-08612	2	PEDESTRIAN WALKWAY	CRESCENT AVE & CREEK	P000	P000
36660	I65-114-02419B	3	I-65	7 STREETS, RR, MONORAIL	I065	0000
36820	I65-118-04915C	3	I-65	WHITE RIVER, CANAL & PKY	I065	
41966	I70-69-08516ADJ	3	I-70 WBL ON RAMP	I-70 WBL C-D RAMPS	I070	I070
41968	I70-69-08517	3	I-70 EBL OFF RAMP	I-70 & I-70 CD's	I070	I070
41972	I70-69-08519	3	I-70 EBL ON RAMP	I-70 & I-70 CD's	I070	I070
42110	I70-75-02376B	3	I-70	CONRAIL WYE TRACKS	I070	
42190	I70-77-2420A	3	I-70	WHITE RIVER & 4 STREETS	I070	
42715	I70-86-06462C	3	I70WB RAMP-I465SB	I-70	I070	I070
49955	I465-117-06463A	3	I-70 WB TO I465 SB	I-465 & EAST 21ST STREET	I465	I465
51040	I465-159-04456DEBL	3	I-465 EBL	WHITE RIVER	I465	
51050	I465-159-04456DWBL	3	I-465 WBL	WHITE RIVER	I465	
3100	012-45-06537	4	US 12	LAKE GEORGE CANAL	0012	
11271	(24)29-09-04620B	4	US 24 & US 35	WABASH RIVER & 2 STS	0024	
5940	24-91-03731B	4	US 24	TIPPECANOE RIVER	0024	
27660	152-45-01031G	4	SR 152	CONRAIL & IHB RR	0152	
33025	912-45-02546RWN	4	RAMP B - WB	CONRAIL	0912	
33026	912-45-02546REX	4	RAMP D - EB	RILEY ROAD & RAMP C	0912	0000
33027	912-45-02546RENA	4	RAMP C - EB	RILEY ROAD, RAMP D	0912	0000
33028	912-45-02546RWXA	4	RAMP A - WB	ELEVATION	0912	
33029	912-45-02546A	4	SR 912	CANAL, RAMP, 3 RR & RD.	0912	0000
33030	912-45-02552A	4	SR 912	CONRAIL, DICKEY RD, DOCK	0912	
33163	(912)I80-5-07823	4	SR912EBL TO I80EBL	I-80, SR 912, & RAMPS	0912	I080
33166	(912)I80-5-07828	4	SR912WBL TO I80WBL	I-80, SR 912, & RAMPS	0912	I080

List of INDOT's ---- 104 "Major Bridges"

NBI-#	BRIDGE-NUMBER	DISTRICT	FACILITY-CARRIED	FEATURES-INTERSECTED	ROAD-#-OVER	ROAD-#-UNDER
10335	046-03-07495EBL	5	SR 46 EBL	EAST FORK WHITE RIVER	0046	
13110	039-55-03108B	5	SR 39	WHITE RIVER	0039	
15955	046-60-02201B	5	SR 46	IND.SOUTH.RR & WHITE RIV	0046	
18680	050-40-00917C	5	US 50	V FORK MUSCATATUCK RIVER	0050	
25065	101-78-06796A	5	SR 101	SR 156 & MARKLAND DAM	0101	0156
26348	135-31-06504A	5	SR 135	OHIO RIVER & CO ROAD	0135	
26350	135-31-05763A	5	SR 135	LICK RUN CREEK	0135	
34510	164-125-02294CEBL	5	I-64 EBL	SR 111 (MAIN STREET)	1064	0111
34513	164-125-02294JCEB	5	I-64 EBL	SOUTHERN RR	1064	
34515	164-125-02294CWBL	5	I-64 WBL	SR 111 & RR (MAIN ST)	1064	0111
34520	164-103-04691C	5	I-64	OHIO RIVER & WATER STEET	1064	
34530	165-0-04811B	5	I-65	RIVERSIDE DR & MARKET ST	1065	
35300	165-54-04651BNBL	5	I-65 NBL	EAST FORK WHITE RIVER	1065	
35310	165-54-04651BSBL	5	I-65 SBL	EAST FORK WHITE RIVER	1065	
35520	165-68-07910	5	I-65	SR 46	1065	0046
35540	165-68-04699JCNC	5	I-65 NBL	DRIFTWOOD RIVER	1065	
35550	165-68-04699CSBL	5	I-65 SBL	DRIFTWOOD RIVER	1065	
11930	(50)37-47-03416JDEB	6	US 50 EBL	EAST FORK WHITE RIVER	0050	
11940	(50)37-47-06615AWBL	6	US 50 WBL	EAST FORK WHITE RIVER	0050	
14210	041-93-04997 BNBL	6	US 41 NBL	CHEATAM SLOUGH	0041	
14220	041-93-00876DSBL	6	US 41 SBL	CHEATAM SLOUGH	0041	
14230	041-82-04998BNBL	6	US 41 NBL	OHIO RIVER OVERFLOW	0041	
14240	041-82-00877DSBL	6	US 41 SBL	OHIO RIVER OVERFLOW	0041	
14250	041-82-04999ANBL	6	US 41 NBL	EAGLE CREEK	0041	
14260	041-82-04999JASB	6	US 41 SBL	EAGLE CREEK	0041	
14560	041-26-03917E	6	US 41	WHITE RIVER	0041	
18140	050-42-04625BEBL	6	US 50 EBL	WABASH RIVER & ILL SR 33	0050	0033
18150	050-42-04625BWBL	6	US 50 WBL	WABASH RIVER & ILL SR 33	0050	0033
19630	231-28-02571	6	US 231 (SR 54)	WHITE RIVER & CR 150W	0231	0000
20710	057-28-00341C	6	SR 57	WHITE RIVER	0057	
20720	057-28-03042D	6	SR 57	WHITE RIVER OVERFLOW	0057	
21972	062-82-02607	6	SR 62	SEABOARD RR,PIGEON CR.,RD	0062	
27670	154-77-06536	6	SR 154	WABASH R, OVERFLOW, STR.	0154	0000
29895	237-62-06512B	6	SR 237	OHIO RIVER, STS & RR	0237	0000
30940	257-63-06583	6	SR 257	EAST FORK WHITE RIVER	0257	
32670	(441)50-42-00690D	6	SR 441	WABASH RIVER,CSX RR & RD	0441	0000
33240	164-5-05201BEBL	6	I-64 EBL	BLACK RIVER	1064	
33250	164-5-05201BWBL	6	I-64 WBL	BLACK RIVER	1064	
22835	064-26-00965C	I	SR 64 (ILL-15)	WABASH RIVER	0064	
33174	164-0-5196EBL	I	I-64 EBL	WABASH RIVER & CR 2140 E	1064	1064
33175	164-0-5196WBL	I	I-64 WBL	WABASH RIVER & CR 2140 E	1064	1064
8868	031-10-07102A	K	US 31	OHIO RIVER & STREETS	0031	0031
14202	041-93-00569NBL	K	US 41 NBL	OHIO RIVER & ROAD	0041	0041
14203	041-93-04995SBL	K	US 41 SBL	SOUTH FLOOD PLAIN	0041	
14204	041-93-05000SBL	K	US 41 SBL	OHIO RIVER	0041	
14205	041-93-04996SBL	K	US 41 SBL	ACCESS RD & N.FLOOD PLAIN	0041	0041
24727	(161)231-74-04088A	K	SR 161	OHIO RIVER & 2ND STREET	0161	0161
29366	231-74-07721	K	US 231	OHIO RIVER & SR 66	0231	0066
32005	421-39-06003	K	US 421	OHIO RIVER & ROADS	0421	0421
34528	165-0-04810	K	I-65	OHIO RIVER	1065	
49660	1275-0-05639	K	I-275	OHIO RIVER	1275	
49670	1275-1-02415B	K	I-275	CSX RR & UNNAMED CREEK	1275	
23305	066-65-06575	P	SR 66 & ILL SR 14	WABASH RIVER & SERVICE RD	0066	0066
21869	062-65-T4020A	T	SR 62 -TOLL BRIDGE	WABASH R. & HERMAN ISLAND	0062	
21870	(62)762-65-04020A	T	SR 62	HERMAN IS. & LTL. CHAIN	0062	

Number and Types of: MAJOR INDOT Bridges

Code for Bridge Type	Types of Bridges	Number of Major Bridges
1	Primary Border Bridge **	22
2	Secondary Border Bridge	11
3	Post-Tensioned Concrete Box Girder Bridges	18
4	Pin & Hanger Bridges	2
5	Cable-Stayed Bridges	5
6	Large Deck Area-Single Bridge +	14
7	Large Deck Area-Twin Bridges ++	28
8	Miscellaneous Type of Bridge	8
9	Other Owners of Bridges *	4
		Total = 104 Bridges
<p>* Two bridges on SR-62 belong to the Indiana Toll Finance Authority. One bridge on US-31 is owned by the City of Louisville and Inventoried by KYDOT. One Bridge on SR-66 is owned by the White County Bridge Commission. Funding for these bridges would generally NOT come from the Major Bridge Fund.</p>		
<p>** The <u>Design</u> and <u>Construction Cost</u> for three new Ohio River Bridges shall be funded under the "Major New Project" Funds, and NOT the "Major Bridge" Funds.</p> <p>The Bridges are the: new I-65, new I-265, and new I-69 Bridges.</p>		
<p>+ Theses are bridges with a Deck Area greater than 25,000 square feet.</p> <p>++ These are side-by-side, main-line bridges, with a combined Deck Area greater than 50,000 square feet.</p>		

INDOT BRIDGE INSPECTION PERSONNEL -- QUALIFICATIONS CHART

Location	Name	Current Inspection Position	Actual Inspection Period	Title	Position	Qualifications	NBI Certified Team Leader	NHI Bridge Safety Class	Refresher NHI-Class	NHI Fracture Critical	Underbridge Equipment Training	Minn. U.B. Training
							1	2	3	4	5	
Central Office	Jaffar Golkhajeh	June, 1994	1986-1987	Bridge Management Engineer	HE I	P.E. (Registered)	YES	YES	needs	Apr, 2007	Snooper	
Staff	Manoj Sutaria	Oct, 2006	~	Deputy Bridge Management Engineer	HE II	P.E. (Registered)	YES	YES		Apr, 2007	no	
Central Office	Bill Dittrich	June, 2003	1980 -->	State Bridge Inspection Engineer	HE I	P.E. (Registered)	YES	Feb, 2004		Oct, 2003	UB-40,UB-60	
Insp. Unit	John Samuelson	Jan., 1972	1972 -->	C.O. Bridge Inventory Specialist	EAS III	Experience	YES	Feb, 2004		needs	no	
	Vacant			Asst. Bridge Inspection Engineer	HE III	~	~	~		~	~	
	Gerald Nieman	April, 2006	2006 -->	C.O. Bridge Inventory Data Specialist	RA 5	~	no	Mar, 2007		Apr, 2006	no	
	Debbie Lewis	April, 2006	2006 -->	C.O. Bridge - County Bridge Review	EA I	~	no	Mar, 2007		Apr, 2006	no	
Crawfordsville	Sherwood Garrison	Apr., 1999	1999 -->	District Bridge Inspection Engineer	HE II	P.E. (Registered)	YES	Mar, 2006	Oct, 2006	Apr, 2006	UB-40,UB-60	
	Matthew Ference	Aug., 2006	2006 -->	Bridge Inspector	HE III	EIT	no	Mar, 2007		Oct, 2006	Pending	Yes
	Dan Bewley	Aug., 1994	1986 -->	Bridge Inspector - Team Leader *	ET	Experience	YES	Mar, 2006	Oct, 2006	Apr, 2006	UB-40,UB-60	Yes
	Melvin (Ponch) Hughes	Aug., 2006	2006 -->	Bridge Inspector - (Large Culverts) *	HT-BB	~	no	Mar, 2007		Apr, 2007	UB-40,UB-60	Yes
Fort Wayne	Mike Hallien	Apr., 1995	1995 -->	District Bridge Inspection Engineer	HE II	P.E. (Registered)	YES	1995	Oct, 2006	Oct, 2006	UB-40,UB-60	
	Kirk Smith	Oct., 2000	2000 -->	Bridge Inspector - Team Leader	ET	Experience	YES	Mar, 2001		Oct, 2003	UB-40,UB-60	
	Tim Atkinson	Dec, 2005**	2005 -->	Bridge Inspector - Assistant	EA I	~	no	Oct.,1999		needs	UB-40,UB-60	
	Tom Imbimbo	Dec, 2005*	2005 -->	Bridge Inspector - (Large Culverts)	HE III	~	no	no		needs	no	
				* Previous Inspection experience in the 1970's in the Central Office								
				** Previous Inspection experience in the 1990's in the Fort Wayne District - 3-years.								
Greenfield	Jim Mickler	Feb., 1994	1994 -->	District Bridge Inspection Engineer	HE II	P.E. (Registered)	YES	1995	Oct, 2006	Oct, 2006	UB-40,UB-60	
	Walter Evans	Nov, 2006	2006 -->	Bridge Inspector - moved to Dist. Design	HE III	P.E. (Registered)	YES	Mar, 2007		Apr, 2007	no	
	John Routh	Sept., 1994	1994 -->	Bridge Inspector - Team Leader	ET	Experience	YES	1999		Oct, 2003	UB-40,UB-60	
	James Yapp	Jan., 2006	2006 -->	Bridge Inspector - (Large Culverts)	EA I	~	no	Mar, 2006		Apr, 2006	UB-40,UB-60	
LaPorte	Wayne Skinner	Aug., 1998	1998 -->	District Bridge Inspection Engineer	HE II	P.E. (Registered)	YES	1999	Oct, 2006	Apr, 2007	UB-40,UB-60	
	Rich Fieberg	Oct., 1982	1982 -->	Bridge Inspector - Team Leader	HE IV	Experience	YES	1995	Oct, 2006	Apr, 2007	UB-40,UB-60	
	Joe Wojdyla	Sept., 2000	2000 -->	Bridge Inspector - Team Leader	ET	Experience	YES	Mar, 2001		Oct, 2003	UB-40,UB-60	Yes
	Greg Szabo	July, 2006	2006 -->	Bridge Inspector - (Large Culverts)	EA I	~	no	Mar, 2007		Oct, 2006	UB-40,UB-60	Yes
Seymour	Chris Everman	Aug., 2003	2003 -->	District Bridge Inspection Engineer	HE II	P.E. (Registered)	YES	Feb, 2004		Oct, 2003	UB-40,UB-60	
	Jerry Martin	Jan., 2007	2007 -->	Bridge Inspector - Team Leader	HE III	P.E. (Registered)	YES	Mar, 2007		Apr, 2007	no	
	Mark Wolfe	Oct., 1994	1994 -->	Bridge Inspector - Team Leader *	ET	Experience	YES	1995	Oct, 2006	Oct, 2003	UB-40,UB-60	Yes
	Drew Storey	Feb. 2006	2006 -->	Bridge Inspector - (Large Culverts) *	EA I	~	no	Mar, 2006		Apr, 2006	UB-40,UB-60	Yes
Vincennes	Bob Turner	Dec, 2005	2005 -->	District Bridge Inspection Engineer	HE II	P.E. (Registered)	YES	Mar, 2006		Apr, 2006	UB-40,UB-60	
	Benjamin Henson	Oct., 2007	2007 -->	Bridge Inspector	HE III	EIT	no	no		no	no	
	Brad Ridgley	Nov., 1998	1998 -->	Bridge Inspector - Team Leader	ET	Experience	YES	1999		Oct, 2003	UB-40,UB-60	
	Ronnie Anthis	Jan., 2006	2006 -->	Bridge Inspector - (Large Culverts)	EA I	Experience	YES	Mar, 2006		Apr, 2006	UB-40,UB-60	
Toll Road	Erich Hart	May,2003	7/03 -->	Consultant Bridge Inspector (RQAW)	~	P.E. (Registered)	YES	Mar, 2006		Oct, 2006	~	
RQAW												

INDOT BRIDGE INSPECTION PERSONNEL -- QUALIFICATIONS CHART

Under the "Title" section above, a * indicates a "DESIGNATED" Under Bridge Inspection Machine Trainer, QA/QC Trainer/Evaluator, and Transfer Coordinator/Agent.
Crawfordsville District "Designees" are primarily responsible for the **UB-40**. **Seymour District** "Designees" are primarily responsible for the **UB-60**.

#1. Currently, a team Leader for INDOT Bridge Inspection must either be: a Professional Engineer, who has taken the two-week "**Safety Inspection of In-Service Bridges**" class, or a person who has had five-years of qualified bridge inspection experience in a responsible position, and the two-week "**Safety Inspection of In-Service Bridges**" class.

#2. The NHI "**Safety Inspection of In-Service Bridges**" class (two-week class), has been held in Indiana in: 1983, 1993, 1995, 1999, 2004, Feb.2006, and June 2006, March, 2007, Feb, 2007, April, 2007

INDOT held its own one-week class in 1997.

* Inspectors attended the class in Michigan, in 2001.

** Inspector attended the class in Tennessee, in 2002.

#4. An NHI Bridge Inspector Refresher Course was held in October, 2006.

#3. Other NHI classes and other training specifically for bridge inspectors has been:
 Inspection of Fracture Critical Bridge Members -- 1989
 Economical and Fatigue Resistant Steel Bridge Details -- 1992
 Culvert Inspections -- 1997
 Underwater Bridge Inspections -- 1990
 Corrosion Detection in Reinforced Concrete Structure -- 1992
 Seismic Response for INDOT Bridges -- 2000
 Asbestos Inspection Training -- 1994 --> yearly since, for re-certification
 Small Structure Inspection ~ Train-the-Trainer -- 2003
 Fracture Critical Inspection Techniques for Steel Bridges -- 2003 & Apr. & Oct., 2006, April, 2007
 Bridge Inspector's Refresher Course -- Oct., 2005

#5. There was training on the use of the (retired) Paxton Mitchell Snooper -- 1981.
 There was training on the two MOOG Machines -- 1991+-.
 Training on the UB-40 was held in 1994 & 2006.
 Training on the UB-60 was held in 2003 & 2006.
 Pre-Season Use training in March, 2007, on UB-40 & UB-60.
 Two Inspectors attended Aspen Aerials UB Factory training in Sept, 2005.
 Five Inspectors attended Aspen Aerials UB Factory Training in Sept, 2007.

1. INDOT used the BARS (Bridge Analysis Rating) program since +-1977.
 (This program has not been supported by AASHTO or updated, since +-1995.)
2. INDOT evaluated, but has not used for production, the LARS (Load Analysis Rating) program in the late 1990's and early 2000's. (This is an upgraded version of BARS.)
3. INDOT is conducting some in-house Load Ratings, but has mainly been using Consultants to produce load ratings using the VIRTIS program since the late 1990's. (This is now the official AASHTO load rating program.)

Inspectors: Please forward any needed corrections or additions to the above information, to Bill Dittich, for inclusion in future charts.